Index of Claims

| Appl | icat | ion | /Co | ntro | ol No. |
|------|------|-----|-----|------|--------|
|------|------|-----|-----|------|--------|

10/621,725

Examiner

Rodney B. White

Applicant(s)/Patent under Reexamination

IGARASHI ET AL.

Art Unit

3636

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   |                                |

Restricted

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| 4 | Appeal   |
|---|----------|
| 0 | Objected |

|          |          |          |          |  |              |              | •        |          |                   |          |     |              |          |  |              |          |          | •  | _        |          |          | _ |
|----------|----------|----------|----------|--|--------------|--------------|----------|----------|-------------------|----------|-----|--------------|----------|--|--------------|----------|----------|--|----------|----------|----------|---|
| Cla      | aim      | Date     |          |  |              |              |          | _        |                   | Cla      | im_ | Date         |          |  |              |          |          |  | _        |          |          |   |
| Final    | Original | 12/7/05  | 4/12/06  |  |              |              |          |          |                   |          |     | Final        | Original |  |              |          |          |  |          |          |          |   |
| 1        | 1        | V        | =        | Г  | ┢            |              |          |          |                   |          |     |              | 51       |  |              |          |          |  |          | $\vdash$ |          | Г |
|          | 2        | 1        |          |  |              |              |          |          |                   |          |     |              | 52       |  |              |          |          |  |          |          |          |   |
| 2        | 3        | 1        | =        |  |              |              |          |          |                   |          |     |              | 53       |  |              |          |          |  |          |          |          |   |
| 3        | 4        | V        | =        |  |              |              |          |          |                   |          |     |              | 54       |  |              |          |          |  |          |          |          |   |
| 6        | 5        | 1        | 11       |  |              |              |          |          |                   |          |     |              | 55       |  |              |          |          |  |          |          |          |   |
| 7        | 6        | 1        | =        |  |              |              | <u> </u> |          |                   |          |     |              | 56       | Щ  |              |          | L        | L  | L        |          | L        | L |
| 4        | 7        | 1        | =        | <u> </u>   | lacksquare   |              | <u> </u> |          | $ldsymbol{f eta}$ |          |     |              | 57       |  |              |          | L.       | _  |          | _        | _        | L |
| 5        | 8        | V        | =        | _  | <u> </u>     | _            | <u> </u> |          | <u> </u>          |          |     |              | 58       | <u> </u>   |              |          |          | _  | _        | <u> </u> | <u> </u> | Ļ |
| 8        | 9        | 1        | =        | <u> </u>   | ļ            | <u> </u>     | <u> </u> |          | <u> </u>          |          |     |              | 59       | Ш  |              |          | _        | _  | <u> </u> | <u> </u> |          | Ļ |
| 9        | 10       | 1        | =        | <u> </u>   | ┡            | ┡            | <u> </u> | <u> </u> | _                 |          |     |              | 60       | $\vdash$   |              |          | ┝        | _  | _        |          | ⊢        | ┞ |
| 10       | 11       | 1        | =        | -  | ┝            | 1            | -        | -        |                   | <u> </u> |     |              | 61<br>62 | _  |              |          |          |  | _        | -        | -        | ⊦ |
| 11       | 12       | 1        | =        | -  | ├            | ├            |          |          | H                 |          |     |              | 63       | $\vdash$   |              |          | ⊢        | -  | -        | -        | ⊢        | ⊦ |
| 12       | 14       | <u>'</u> | =        | ⊢  | $\vdash$     | <del> </del> | ⊢        | -        |                   | _        |     |              | 64       |  | _            | -        | ├        | ├  | $\vdash$ |          | $\vdash$ | ┝ |
| 12       | 15       | ⊢        | ┝╌       | ├  | ├-           | ├            | ├        | $\vdash$ | $\vdash$          | -        |     |              | 65       | H  |              | _        | -        | $\vdash$   | ┢        | ┢        |          | H |
|          | 16       | ├╌       | ┢        | ╁╌   | 1            | ╁            | ┢        | $\vdash$ | -                 | -        | ١.  |              | 66       | $\vdash$   |              |          | -        | $\vdash$   |          |          | $\vdash$ | H |
| -        | 17       |          |          | H  | 1            | ┢            | -        | $\vdash$ |                   | $\vdash$ | i   |              | 67       | Н  |              |          | -        | $\vdash$   |          |          |          | t |
|          | 18       | ┢        |          | <b>-</b>   | 1            | ╁            | $\vdash$ | T        |                   |          |     |              | 68       | Н  |              | _        | Т        |  |          |          |          | T |
|          | 19       |          | $\vdash$ | <del>                                     </del> | $\vdash$     | t            |          | T        |                   |          |     |              | 69       |  |              |          |          |  |          | $\vdash$ | Г        | T |
|          | 20       | <u> </u> |          | İ  | 1            | Ī            | Г        |          |                   |          |     |              | 70       | П  |              |          |          |  |          |          |          | Γ |
|          | 21       |          | T        |  | 1            |              |          |          |                   | П        |     |              | 71       |  |              |          |          |  |          |          |          | Γ |
|          | 22       |          |          |  |              | T            |          |          |                   |          |     |              | 72       |  |              |          |          |  | Ī.,      |          |          | Γ |
|          | 23       |          | L        |  |              |              |          |          |                   |          |     |              | 73       |  |              |          |          |  |          | L        | L        | L |
|          | 24       | L        |          |  |              | _            | _        | _        | L                 |          |     |              | 74       |  |              |          | _        |  |          | <u> </u> | _        | L |
| <u> </u> | 25       | ļ        |          | _  | <u> </u>     | <u> </u>     |          | _        | _                 |          |     |              | 75       | _  |              |          | 匚        | <u> </u>   | <u> </u> | ļ        | <u> </u> | Ł |
| <u> </u> | 26       | ļ        | ļ        | $\vdash$   | _            | ├-           | -        | <u> </u> |                   | ļ        | l   |              | 76       | _  |              | _        | <u> </u> | -  | ┝        | ⊢        | ⊢        | Ł |
| <u> </u> | 27       | ├        | $\vdash$ | ⊢  | ⊢            | -            | }—       | -        |                   |          |     |              | 77<br>78 | -  |              |          | -        | ⊢  | ⊢        | ⊢        | ⊢        | ╁ |
| <u> </u> | 28<br>29 | ├        | H        | ┢  | -            | ┢            | ├        | ┝        | ├-                | _        | 1   |              | 79       | $\vdash$   |              | -        | -        |  | ╁        | ┢        | ├        | t |
|          | 30       | $\vdash$ | $\vdash$ | ╁  | ╁╌           | ╁            |          | ╁        | $\vdash$          | $\vdash$ | 1   |              | 80       | -  |              | -        | -        | ┢  | ┢        | $\vdash$ | ⊢        | t |
|          | 31       | $\vdash$ | ╫        | ┼  | ╁╌           | ╁╌           | ╁        | $\vdash$ |                   | $\vdash$ |     |              | 81       |  | -            |          | -        | ┢  | ╁        | $\vdash$ | ┢        | t |
|          | 32       | ┢        | $\vdash$ | ┢  | ╁            | 1            | <b>-</b> |          | H                 | $\vdash$ | 1   |              | 82       |  |              |          | _        | <u> </u>   | $\vdash$ | ┢        | ✝        | t |
|          | 33       | $\vdash$ | t        | 一  | 1            | 1            | T        | ╁        |                   |          | 1   |              | 83       |  | _            | _        |          |  | $\vdash$ | t        | T        | t |
|          | 34       | H        | <u> </u> | <del>                                     </del> | $\vdash$     | -            | <u> </u> |          |                   |          | 1   |              | 84       |  |              |          |          | T  | T        | T        | m        | T |
|          | 35       | ļ        |          |  | Г            |              |          |          |                   |          | 1   | -            | 85       |  |              |          |          | Π  | Π        |          | Ī        | Γ |
|          | 36       |          |          | 1  | Ī            |              |          | Г        |                   |          | 1   |              | 86       |  |              |          |          |  |          |          |          | Γ |
|          | 37       |          |          |  |              |              |          |          |                   |          | ]   |              | 87       |  |              |          |          |  |          |          |          | L |
|          | 38       |          |          | L  | <u>L.</u>    |              |          |          |                   |          | ]   |              | 88       |  | _            |          | L        |  |          | L        | <u> </u> | L |
|          | 39       |          | <u> </u> | <u> </u>   |              |              |          |          | L                 | _        | 1   |              | 89       |  | <u> </u>     |          | L        | 乚  | _        | ļ        | _        | L |
|          | 40       |          | <u> </u> | <u> </u>   | lacksquare   | _            | L        | <u> </u> | <u> </u>          |          |     |              | 90       | <u> </u>   | _            | L        | <u> </u> | <u> </u>   | <u> </u> | <u> </u> | ╙        | ļ |
|          | 41       | ↓_       | ┞        | _  | _            | ـ            | ļ        | <u> </u> | <u> </u>          | _        |     | ļ            | 91       | <u> </u>   | ļ            | _        | ļ        | 1  | ļ        | <u> </u> | <u> </u> | Ļ |
|          | 42       | ┡        | ↓_       |  | ╄            | ├            | <u> </u> | ₽        | ┡                 | <u> </u> | -   |              | 92       | <del> </del>                                     | <u> </u>     | <u> </u> | ┡        | <b>↓</b> _                                       | ├        | ╀        | ⊢        | Ł |
|          | 43       | $\vdash$ | $\vdash$ | ┼-   | $\vdash$     |              | ┼        | ├        |                   | -        | ł   | <b> </b>     | 93<br>94 | $\vdash$   | <del> </del> | <u> </u> | ├-       | $\vdash$   | $\vdash$ | $\vdash$ | ₩        | + |
| -        | 45       | ╀╌       | ╄        | ╀  | <del> </del> | ╁            | ├        | ╁╌       | -                 | -        | ł   | <u> </u>     | 95       | <del> </del>                                     |              | -        | ┝╌       | ⊢  | ╁        | ╁╌       | ╁        | ╁ |
| -        | 46       | ╁        | $\vdash$ | +  | +            | 1-           | +-       | $\vdash$ | +                 | -        | 1   | <del> </del> | 96       | $\vdash$   | $\vdash$     | -        | $\vdash$ | ╁  | +        | +        | $\vdash$ | t |
| $\vdash$ | 47       | ╁        | ╁        | $\vdash$   | +-           | +-           | ╁╌       | ┼        | ┼─                | -        | 1   | <u> </u>     | 97       | <del> </del>                                     | <del> </del> | ┢        | -        | 1  | -        | +-       | $\vdash$ | t |
|          | 48       | +        | +-       | +-   | ╁╌           | +            | H        | +        | 1                 | -        | 1   | <b> </b>     | 98       | H  | $\vdash$     | -        | $\vdash$ | +-   | $\vdash$ | T        | $\vdash$ | t |
|          | 49       | T        | T        | $t^-$  | T            | 1-           | 1        | T        | $\vdash$          | H        | 1   | <b></b>      | 99       | <del>                                     </del> |              | $\vdash$ | $\vdash$ | <del>                                     </del> | 1        | T        | T        | t |
|          | 50       | T        | Τ        | T  |              | T            | T        |          | T                 | Г        | 1   |              | 100      |  | Γ            |          |          | Γ  |          |          | Π        | Ť |
|          | •        | •        |          | _  | _            | •            | _        | •        |                   | _        | •   |              | •        | _  | _            |          | _        |  | •        | •        |          | _ |

| Cla      | aim      |                 |                |  |              | Date           | •        |          |                |  |
|----------|----------|-----------------|----------------|--|--------------|----------------|----------|----------|----------------|--|
| <b>—</b> |          |                 | П              |  |              |                |          |          |                |  |
| Final    | Original |                 |                |  |              |                |          |          |                |  |
|          | 51<br>52 |                 |                |  |              |                |          |          |                |  |
|          | 52       |                 |                | Щ  | $\Box$       |                |          | Ш        | Ш              |  |
|          | 53       | 1               | Ш              |  | Ш            | Н              | Щ        | Ш        |                |  |
|          | 54       | $\vdash \vdash$ | Щ              |  | Н            | Н              |          | Н        |                |  |
|          | 55<br>56 | $\vdash\vdash$  | $\vdash\vdash$ | -  | $\vdash$     | $\vdash\vdash$ |          | Н        | $\dashv$       | _  |
|          | 57       | Н               | $\vdash$       | H  | Н            | $\vdash$       | $\vdash$ | Н        | -              | -  |
|          | 58       | $\vdash \vdash$ | H              | H  | $\vdash$     |                | Н        | Н        | $\vdash$       | <b></b>  |
| -        | 59       | $\vdash$        | $\vdash$       | $\vdash$   | М            |                |          | Н        | $\Box$         |  |
|          | 60       | П               |                |  |              | $\Box$         |          |          |                | Г  |
|          | 61       |                 |                |  |              |                |          |          |                |  |
|          | 62<br>63 |                 |                |  |              |                |          |          |                |  |
|          | 63       |                 | $\square$      |  |              | Щ              |          |          | Ш              |  |
| <u> </u> | 64       | Ш               | $\sqcup$       | $\sqcup$   |              |                |          |          | $\vdash$       | $\square$  |
| <b> </b> | 65<br>66 | $\vdash$        |                | <b> </b>   |              | $\vdash\vdash$ |          |          | $\vdash\vdash$ | <b> </b>   |
|          | 67       | $\vdash$        | $\vdash\vdash$ | $\vdash$   | -            | $\vdash$       | _        |          | $\vdash$       | $\vdash \vdash$                                  |
| $\vdash$ | 68       | $\vdash$        | $\vdash$       | $\vdash$   | H            | $\vdash$       | -        | H        | $\vdash$       | $\vdash$   |
|          | 69       | $\vdash$        | H              | $\vdash$   | $\vdash$     | Н              |          | $\vdash$ | $\vdash$       | $\vdash$   |
| -        | 70       | H               |                | Н  |              | П              | _        |          | П              | <u> </u>   |
|          | 71       |                 |                |  |              |                |          |          |                |  |
|          | 72       |                 |                |  |              |                |          |          |                |  |
|          | 73       |                 |                |  |              |                |          |          |                |  |
| <u></u>  | 74       |                 | <u> </u>       | Ш  |              | Щ              |          |          |                | L  |
| <u></u>  | 75       |                 |                | Ш  | $\vdash$     | $\vdash\vdash$ |          | -        | Н              | <u> </u>   |
| -        | 76<br>77 | ⊢               | ├─             | H  | $\vdash$     | $\vdash$       | H        |          | $\vdash$       | $\vdash$   |
| -        | 78       | ┼─┤             | $\vdash$       | -  | $\vdash$     | H              | -        | $\vdash$ | H              | $\vdash$   |
| -        | 79       | $\vdash$        | H              | <del>                                     </del> | $\vdash$     |                | Н        | $\vdash$ | $\vdash$       |  |
| -        | 80       | $\vdash$        | М              | 一  | ╅            |                |          | $\vdash$ | П              | Г  |
|          | 81       |                 |                |  |              |                |          |          |                |  |
|          | 81<br>82 |                 |                |  |              |                |          |          |                |  |
|          | 83       |                 |                | $\Box$   |              |                | _        |          | Ш              |  |
|          | 84       |                 | igspace        | igspace  |              | $\perp$        | _        | ļ        |                | _  |
|          | 85       |                 |                | ├  | <u> </u>     | $\vdash$       |          | _        | $\vdash$       | _  |
| -        | 86<br>87 | -               | ├              |  | -            | $\vdash$       | _        | -        | H              |  |
| -        | 88       | $\vdash$        | H              | ⊢  | <del> </del> | $\vdash$       | $\vdash$ | -        | $\vdash$       | -  |
| -        | 89       | H               | $\vdash$       | $\vdash$   | ┢            | $\vdash$       | $\vdash$ | -        |                |  |
|          | 90       | 一               | $\vdash$       | $\vdash$   | ┢            | 一              |          | _        |                | Г  |
|          | 91       |                 |                |  |              |                |          |          |                |  |
|          | 92       |                 |                |  |              |                |          |          |                |  |
|          | 93       | <u> </u>        | <u> </u>       | Ļ  | <u> </u>     | <u> </u>       | <u> </u> |          | 匚              | <u> </u>   |
| <u> </u> | 94       | ┡               | ▙              | <b>↓</b> _                                       | <u> </u>     | ├-             | _        | _        | <u> </u>       | <u> </u>   |
| <u> </u> | 95       | $\vdash$        | ـــ            | Н-   | ⊢            | <u> </u>       | _        | _        | <u> </u>       | ┞-   |
|          | 96<br>97 | <del> </del>    | —              | ├-   | ├            | ┞              | _        | -        | ⊢              | ├-   |
|          | 98       | ⊢               | ┼─             | ┼-   | ╫            | ├              | $\vdash$ | ├        | ⊢              | ⊢  |
| -        | 99       | -               | <del> </del>   | $\vdash$   | ┢            | -              | -        | -        | ╁╌             | <del>                                     </del> |
|          | 100      | ╁               | ╀              | +  | ⊢            | ├              | ├-       | ╁        | +−             | -  |

| Claim |                                 | Date   |  |                    |  |              |  |          |          |  |  |  |
|-------|---------------------------------|--|--|--------------------|--|--------------|--|----------|----------|--|--|--|
| Final | Original                        |  |  |                    |  |              |  |          |          |  |  |  |
|       | 101                             | Щ  | _  | -                  |  |              | $\vdash$   |          | _        | $\dashv$   |  |  |
| -     | 101                             | Н  |  | -                  | H  |              | Н  |          | -        |  |  |  |
|       | 102<br>103                      | Н  |  |                    |  | _            |  | _        |          | $\vdash$   |  |  |
|       | 104                             |  |  | -                  |  | _            |  |          |          |  |  |  |
|       | 105                             |  |  |                    |  |              |  |          |          |  |  |  |
|       | 106                             | _  |  |                    |  |              | $\vdash$   |          |          |  |  |  |
|       | 107                             |  |  |                    |  |              |  |          |          |  |  |  |
|       | 107<br>108                      |  |  |                    |  |              |  |          |          |  |  |  |
|       | 109                             |  |  |                    |  |              |  |          |          |  |  |  |
|       | 110<br>111                      | <u></u>  |  | _                  |  | _            | <u> </u>   |          | _        |  |  |  |
|       | 111                             |  | <u> </u>   |                    |  | _            | _  | _        | <u> </u> |  |  |  |
|       | 112<br>113<br>114<br>115<br>116 |  | <u> </u>   | L                  |  | _            |  |          | _        |  |  |  |
|       | 113                             |  | <u> </u>   |                    | <u> </u>   | <u> </u>     | <u> </u>   | _        | _        |  |  |  |
|       | 114                             |  | <u> </u>   | <u> </u>           | <u> </u>   | <u> </u>     |  |          | _        |  |  |  |
|       | 115                             |  | <u> </u>   | <u> </u>           | _  | <u> </u>     | <u> </u>   |          | _        | Н  |  |  |
|       | 117                             |  |  |                    |  | ┝            | _  | _        | -        | $\vdash$   |  |  |
|       | 117                             | _  | ⊢  | -                  | _  | ┢            | <del> </del>                                     |          | _        | Н  |  |  |
| -     | 118<br>119                      | _  | -  |                    | ┝  | <u> </u>     |  | _        | -        |  |  |  |
|       | 120                             | -  |  | -                  |  | -            |  | ┝        | -        | -  |  |  |
|       | 121                             | $\vdash$   | -  | -                  | <del> </del>                                     |              |  | H        |          | -  |  |  |
|       | 120<br>121<br>122               | $\vdash$   | -  | -                  | -  |              |  |          |          |  |  |  |
|       | 123                             |  |  |                    | ┢═   | $\vdash$     |  |          |          |  |  |  |
| -     | 123<br>124                      | 一  |  |                    | $\vdash$   | _            |  |          | -        |  |  |  |
| _     | 125                             | Г  |  |                    |  |              |  |          |          |  |  |  |
|       | 126                             | Г  |  |                    |  |              |  |          |          |  |  |  |
|       | 127                             |  |  |                    |  |              |  |          |          |  |  |  |
|       | 126<br>127<br>128<br>129<br>130 |  |  |                    |  |              | L  |          |          |  |  |  |
|       | 129                             |  | L  |                    |  | <u> </u>     |  |          |          |  |  |  |
|       | 130                             | ļ  | ᆫ  |                    |  | <u> </u>     | L_   | ļ        | L.       |  |  |  |
|       | 131<br>132<br>133               | _  | 匚  |                    |  | ļ            | _  | <u> </u> | _        |  |  |  |
|       | 132                             | <u> </u>   | <u> </u>   | ⊢                  | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u> | <u> </u> | -  |  |  |
|       | 133                             | <u> </u>   | -  | ⊢                  | <u> </u>   | ⊢            | _  |          | _        | ļ  |  |  |
|       | 134<br>135                      | -  | ⊢  | ⊢                  |  | -            | -  |          | ├-       | <u> </u>   |  |  |
|       | 135                             |  |  | ├╌                 | ├  | ⊢            | -  |          | ├        | -  |  |  |
|       | 136<br>137<br>138               | $\vdash$   |  | ├╌                 | ┝  | ⊢            | ├  | $\vdash$ |          | -  |  |  |
|       | 138                             | -  | ╁  | $\vdash$           | ┢  | <del> </del> | ┢  |          |          | -  |  |  |
|       | 139                             | ┢  | -  | H                  | <del>                                     </del> |              | <del>                                     </del> |          | ┢        | <del>                                     </del> |  |  |
|       | 140                             | <del>                                     </del> | <del>                                     </del> | Н                  | $\vdash$   | $\vdash$     | $\vdash$   |          | H        | -  |  |  |
|       | 141                             | ┢  | $\vdash$   | 一                  | _  |              |  | -        | <b>†</b> | H  |  |  |
|       | 142                             | ┢┈   | Г  | $\vdash$           |  |              | T  | <u> </u> | t        | t  |  |  |
|       | 143                             | П  | Г  |                    |  |              | 1  |          | t        |  |  |  |
|       | 144                             | Γ  | Г  |                    | Г  | Г            | Γ  |          |          | T  |  |  |
|       | 145                             |  |  |                    |  |              |  |          |          |  |  |  |
|       | 146                             |  |  |                    |  |              |  |          |          |  |  |  |
|       | 147                             | 匚  | 匚  | $oxedsymbol{oxed}$ |  |              | _  |          | L        | L  |  |  |
|       | 148                             | $\vdash$   | L  | _                  | L  | _            | _  | L        | <u> </u> |  |  |  |
| L     | 149                             | <u> </u>   | 1  | <u> </u>           | <u> </u>   | _            | ↓_   | ┞-       | L        | <u> </u>   |  |  |
|       | 150                             | 1  | 1  | 1                  |  | 1            | 1  | 1        | 1        | l .  |  |  |